What is claimed is:

1. A method of controlling a packet terminating call in a mobile communication system, comprising:

registering packet terminating call filtering information for at least one subscriber;

if a packet addressed to the subscriber as a destination is received, determining whether to set a terminating call of the received packet based on the registered packet terminating call filtering information; and

setting the terminating call according to a result of determination.

- 2. The method of claim 1, wherein the packet terminating call filtering information includes information indicating whether to activate use of a packet terminating call filtering function.
- 3. The method of claim 1, wherein the packet terminating call filtering information includes information indicating whether the packet terminating call filtering information includes a non-permission condition or a permission condition.
- 4. The method of claim 1, wherein the packet terminating call filtering information includes packet pattern information.

- 5. The method of claim 4, wherein the packet pattern information includes at least one of a specified source Internet protocol (IP), a specified protocol identifier (ID), and a destination port number.
 - 6. The method of claim 4, wherein the packet pattern information includes at least one of a plurality of packet attributes recorded in a header of a packet.
 - 7. The method of claim 6, wherein the packet attribute includes a source address and subnet mask.
 - 8. The method of claim 6, wherein the packet attribute includes a protocol number (IPv4) / next header (IPv6).
 - 9. The method of claim 6, wherein the packet attribute includes a destination port range.
 - 10. The method of claim 6, wherein the packet attribute includes a source port range.
 - 11. The method of claim 6, wherein the packet attribute includes an IPSec security parameter index (SPI).

- 12. The method of claim 6, wherein the packet attribute includes a type of service (TOS) (IPv4) / a traffic class (Ipv6) and mask.
- 13. The method of claim 6, wherein the packet attribute includes a flow label (IPv6).
- 14. The method of claim 1, wherein the packet terminating call filtering information is included in static information of a gateway general packet radio service (GPRS) support node (GGSN).
- 15. The method of claim 1, wherein the step of registering the packet terminating call filtering information comprises:

receiving a packet terminating call filtering information message from a mobile terminal of the subscriber; and

registering the packet terminating call filtering information based on the received message.

16. The method of claim 1 or 15, further comprising:

receiving a packet terminating call filtering information inquiry and/or update message from a mobile terminal of a subscriber;

inquiring and/or updating the registered packet terminating call filtering information based on the inquiry and/or update message; and

transferring a result of inquiry and/or update to the mobile terminal.

17. The method of claim 1, wherein the step of registering the packet terminating call filtering information comprises:

authenticating a subscriber connected through the Internet;

receiving the packet terminating call filtering information message from the authenticated subscriber; and

registering the packet terminating call filtering information based on the received message.

18. The method of claim 1 or 17, further comprising:

receiving a packet terminating call filtering information inquiry and/or update message from an authenticated subscriber;

inquiring and/or updating the packet terminating call filtering information based on the inquiry and/or update message; and

transferring a result of inquiry and/or update to the authenticated subscriber.

- 19. An apparatus for controlling a packet terminating call in a mobile communication system, comprising:
- a database which stores routing information and filtering information of a protocol data unit for a packet radio service;
- a terminating call control section which controls a terminating call setting for the protocol data unit based on the routing information and the filtering information;
- a message processing section which performs an inquiry and/or update of the filtering information based on an inquiry message and/or update message of the filtering information; and
 - an Internet protocol processing section which processes the protocol data unit and performs the terminating call setting procedure under control of the terminating call control section.
 - 20. The apparatus of claim 19, further comprising:

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an agent for providing the inquiry message and/or update message of the filtering information from an Internet subscriber and/or a mobile terminal; and

an Internet host, connected between the agent and the Internet, for enabling the Internet subscriber and/or mobile terminal to connect to the agent.